REV	DATE	BY	CHK'D	DESCRIPTION
A	9-13-80	ML		ADDED D34,D35,R142,R143; CHANGED D18 FROM J112 TO 2N5638
B	03/14/81	MCA		CHANGE VALUE OF IC7
C	7/2/82	SWR		CHANGED R62 FROM1.5K TO:2.2K (-02 VERSION ONLY)
4	10/20/82	SWR		CHANGED TITLE OF DRAWING

SIGNATURES: DATE:
DRAWN: ML 6-26-80
CHK'D: TEK 7-26-80
APP'D: TEK 7-26-80

PROJECT NAME: GX-130C/GX-130CH

ISSUED: 7-26-80
DRAWING NAME: PRE-AMP SCHEMATIC
PLOT DATE: 10/20/82
PLOT TIME: 09:40:40
FILE NAME: -13001◆
SCALE: NONE SHEET: 1 of 2
DRAWING NO. 16-130-01 (XL) 16-131-01 (XL,H)

TABOR BOSMAN DR. ST. LOUIS, MISSOURI 63146

16-130-01 REFLECTS P.C.B. 06A530-02
16-131-01 REFLECTS P.C.B. 06A530-01

DESIGNATOR	DESCRIPTION	PART NO.
AP-1	10K TRIM	71-103-02

DESIGNATOR	DESCRIPTION	PART NO.
S1-4	MINI DPDT SWITCH	88-302-01
Q18	2N5638	96-538-01
D16,17	MPS-A55	96-055-01
D12,13	2N5087	96-087-01
D10,11	MPSA06	96-006-01
D8,9	2N5210	96-510-01
Q1-7,14,15	J112	96-112-01
P11,12	10KL	70-132-01
P8	2KA	70-202-22
P7,10	50KA	70-503-22
P4	25KL	70-206-01
P3	50KA	70-503-23
P1,13	100KA	70-104-23
J9	11 PIN HEADER	17-310-11
J6-8	.187" FASTON TAB	17-894-01
J4,5	1/4"CLIFF T/S	39-116-01
J1,2	1/4"CLIFF T/R/S	39-117-01
IC11	MA3007	37-307-01
IC10	NE5532	37-532-01
IC1-6,8,9,12	4558	37-458-01
D30	GREEN LED	21-225-01
D27,31	RED LED	21-224-01
D29	YELLOW LED	21-226-01
D13,17	1N4737	21A737-01
D28,29,32,33	1N914	21A914-01
D4,18,23-26, D5,8,11,14,16,		
D3,6,9,12	1N754	21A754-01
D1,2,4,7,10,15, 21,22,34,35	1N746	21A746-01

POINTS	VOLTAGE	WAVE	VOLTAGE	WAVE	SPEC CONDITIONS
1	170mV-p	~	60mV-p	~	
2	.92mV-p	~	0	—	
3	10vp-p	⊓	0	—	
4	4vp-p	⊓	0	—	
5	1vdc	⊓	0	—	
6	3vp-p	⊓	0	—	
7	0	—	4vp-p	⊓	
8	0	—	7.5vp-p	~	
9	7.2vp-p	⊓	3vp-p	⊓	FX Level "max"
10	3vp-p	⊓	7.2vp-p	⊓	FX Level "min"
11	10vp-p	⊓	5vp-p	~	
12	6vp-p	⊓	2vp-p	~	
13	3vp-p	⊓	7.2vp-p	~	
14	3vp-p	⊓	7.2vp-p	~	
15	5vp-p	~	5vp-p	~	82Hz w/rate @ "0" 12Hz w/rate @ "9"
16	15vp-p	⊓	15vp-p	⊓	depth @ "0"
17	-15vdc	—	0vdc	—	
18	0vdc	—	-15vdc	—	Chorus off Chorus on

* Modulated between 82mHz and 240mHz

CHAN. A	CHAN. B
VOL. & GAIN @ 10	VOL. & GAIN @ 10
TONES @ 5	TONES @ 5
30mV-p 1 kHz	30mV-p 1 kHz
INPUT	INPUT

NOTES

1) CAUTION: SHOCK HAZARD!! THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.

2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL. CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.

3) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.

4) CIRCUIT GROUND ⏚ SWITCH GROUND ⏚ CHASSIS GROUND ⏚

S) * - INDICATES ASSIGNED VALUES FOR (R12,C5,C9,R62) ON THE G-130CKLH VERSION.

CAUTION:
THIS SCHEMATIC IS PROVIDED FOR USE BY QUALIFIED PERSONNEL. TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DO NOT PERFORM ANY SERVICING BEYOND THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

RIGHT CHANNEL SAME AS LEFT, ADD 100 TO DESIGNATORS EXCEPT FOR THE FOLLOWING: R7,R8,R34-R44,C3,C4,C5, C15,C17,C20-C26,D3,D12-D21,Q13,J1-J5,J8-J22.

DESIGNATOR	DESCRIPTION	PART NUMBER
AP1,101	500 OHM TRIM	71-501-02
D1,2,5,8	1N746	21A146-01
D101,102,105	1N746	21A146-01
D108	1N746	21A146-01
D3	1N4740	21A440-01
D4,7,18-20	1N914	21A914-01
D104,107	1N914	21A914-01
D6,9,106,109	1N3070	21A370-01
D10,11,110,111	1N5393	21A593-01
D12-15	G1752	21-752-01
D16,17	1N5353	21-553-01
D21	1N4749	21A449-01
Q1,2,3,7,13	MPS A56	96-056-01
Q101,102,103	MPS A56	96-056-01
Q107	MPS A56	96-056-01
Q4,104	2N3440	96-340-01
Q5,105	2N3402	96-342-01
Q6,106	MPS A06	96-006-01
Q8,108	TIP 31C	96-031-03
Q9,109	TIP 32C	96-032-03
Q10,110	MJ15001	96-101-01
Q11,111	MJ15002	96-102-01
Q12,112	J176	96-176-01
J1-5	1/4"CLIFF TRS	39-118-01
J6,106	1/4"CLIFF T/S	39-116-01
J7,107	1/4"CLIFF T/S	39-116-01
J8	11 PIN HEADER	17-310-11
J9-21	.250"FASTON TAB	17-836-01
J22	GROUND LUG	17-500-01

TEST POINTS	VOLTAGE (RMS)	VOLTAGE (DC)
1		-15
2	.32	.7
3		38
4		39
5		4.2
6		.7
7		38.5
8	19	

CONDITIONS: TEST POINTS AND VOLTAGES TO BE SAME FOR BOTH CHANNELS.

EXPORT WIRING

NOTES
1) CAUTION: SHOCK HAZARD!! THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.
2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL, CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
3) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.
4) CIRCUIT GROUND ⏚ SWITCH GROUND ⏚ CHASSIS GROUND ⏚
5) SET AP-1 & AP-101 FOR 3mV ACROSS R26,R27,R126 AND R127.

16-130-01 REFLECTS P.C.B. 06A530-01

16-131-01 REFLECTS P.C.B. 06A530-02

CAUTION:
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REV	DATE	BY	CHK'D	DESCRIPTION
4	10/22/92	TEXT		CHANGED DRAWING TITLE
3	7/2/92	SWR		CHANGED R62 FROM:1.5K TO:2.2K (-02 VERSION ONLY)
B	03/14/91	MGA		SEE SHEET 1
A	9-13-90	ML		SEE SHEET 1

SIGNATURES:		DATE:
DRAWN:	ML	7/26/90
CHK'D:	TEK	7-26-90
APP'D:	TEK	7-26-90
ORIGINAL ISSUED:		
PLOT DATE:		10/20/92
PLOT TIME:		09:49:34
FILE NAME:		-1300114

11680 BORMAN DR.
ST. LOUIS, MISSOURI
63146

PROJECT NAME: GX-130C/GX-130CH

DRAWING NAME: SCHEMATIC DRAWING

DRAWING NO. 16-130-01 (XL) 16-131-01 (XLH)

SCALE: NONE SHEET: 2 of 2